

15/1/21

In Focus



How can we write $\frac{2}{5}$ as tenths?

Before we start this lesson, have this fraction in front of you. Either printed out or drawn out.

In Focus



How can we write $\frac{2}{5}$ as tenths?

What is $\frac{2}{5}$.

Where is $\frac{2}{5}$ shown on the bar model?

In Focus

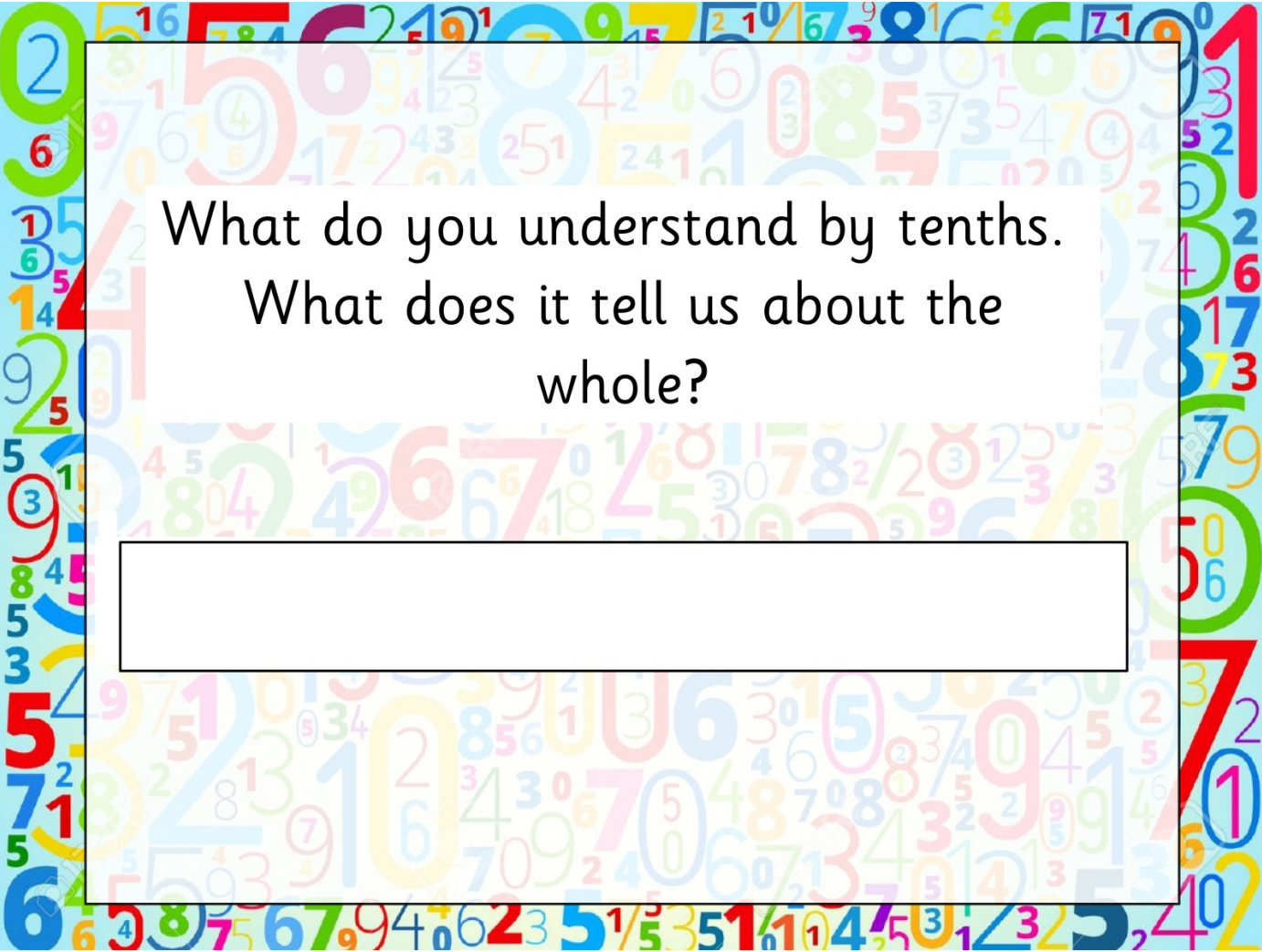


How can we write $\frac{2}{5}$ as tenths?

The whole is divided into 5 parts.

Each part is 1 fifth.

The two coloured parts are two fifths. $\frac{2}{5}$



What do you understand by tenths.
What does it tell us about the
whole?

It means the whole is split into 10 equal parts.

How can we write $\frac{2}{5}$ as tenths?



How can we write $\frac{2}{5}$ as tenths?



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Help on next page.

How can we write $\frac{2}{5}$ as tenths?

5

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How 5 parts can be converted into 10 parts?

How do we get 10 from 5?

Can we use multiplication?

Let's Learn

1



This is $\frac{1}{5}$.



This is $\frac{2}{10}$.

$$\frac{1}{5} \xrightarrow{\times 2} \frac{2}{10}$$



2



$$\frac{2}{5} = \frac{?}{10}$$



2



$$\frac{2}{5} = \frac{4}{10}$$

The equation $\frac{2}{5} = \frac{4}{10}$ is shown inside a grey speech bubble. An arrow labeled $\times 2$ points from the numerator 2 to 4, and another arrow labeled $\times 2$ points from the denominator 5 to 10.

$$\frac{2}{5} = \frac{?}{10}$$

The equation $\frac{2}{5} = \frac{?}{10}$ is shown inside a grey speech bubble. The numerator of the second fraction is a blue box containing a question mark.



2



$$\frac{2}{5} = \frac{4}{10}$$



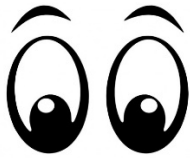
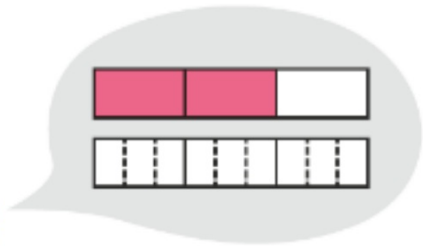
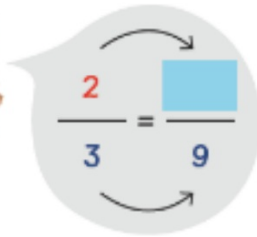
$$\frac{2}{5} = \frac{4}{10}$$

$$\frac{2}{5} = \frac{?}{10}$$



3 Find the missing numerator.

$$\frac{2}{3} = \frac{\square}{9}$$



Watch video clip "Explanation 1"

"Explanation 1"

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"Explanation 1"

"Explanation 1"

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Guided Practice

- 1 Find the missing numerators.



$$\frac{3}{4}$$



$$\frac{3}{4} = \frac{\square}{12}$$



$$\frac{3}{4} = \frac{\square}{8}$$

2 Find the missing numerators and denominators.

$$(a) \frac{2}{5} = \frac{\square}{10}$$

$$(b) \frac{5}{6} = \frac{\square}{12}$$

What have the denominators been multiplied by?

Do the same to the numerator.

Challenge

$$(c) \frac{2}{3} = \frac{\square}{\square}$$



The denominator is more than 10 but less than 15.

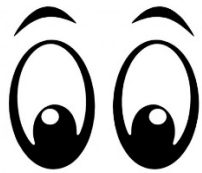
Think about what you need to multiply the denominator by to get a number between 10-15.

THEN

Do the same to the numerator.

Explore this.

Watch video clip "Explanation 2"



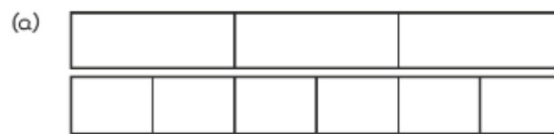
(c) $\frac{2}{3} = \frac{\square}{\square}$



The denominator is more than 10 but less than 15.

Finding Equivalent Fractions

- 1 Find the missing numerators.
Shade the bars to find the answers.



$$\frac{2}{3} = \frac{\square}{6}$$



$$\frac{4}{5} = \frac{\square}{10}$$

- 2 Fill in the blanks.

(a)

$$\begin{array}{c} \times \square \\ \curvearrowright \\ \frac{2}{5} = \frac{\square}{10} \\ \curvearrowleft \\ \times \square \end{array}$$

(b)

$$\begin{array}{c} \times \square \\ \curvearrowright \\ \frac{3}{4} = \frac{\square}{12} \\ \curvearrowleft \\ \times \square \end{array}$$

(c) $\frac{2}{3} = \frac{\square}{9}$

(d) $\frac{3}{5} = \frac{\square}{10}$

Complete
workshee

Going Deeper

See if you can find some additional equivalent fractions for each question.

$$\frac{2}{3} = \cancel{\frac{\square}{\square}} = \frac{\square}{\square}$$

$$\begin{array}{c} \times \square \\ \curvearrowright \\ \frac{2}{5} = \cancel{\frac{\square}{10}} \\ \curvearrowleft \\ \times \square \end{array} = \frac{\square}{\square}$$

Work out
some of your
own.